

Application No. 09/593,121

Response to Office Action of March 31, 2004

DRAWINGS

In the office action, the examiner objects to Figs. 1-3 as needing the legend "Prior Art." The examiner is correct with respect to Figs. 1 and 2, and corrected versions of those two drawings are enclosed herewith. On the other hand, Fig. 3 illustrates a part of what Applicants consider novel in their invention: the alignment of connections in the fine grid with the coarse grid for unstructured grids. This is discussed on pages 9-10 of the present application, beginning on line 28. A key to the advance in Fig. 3 can be seen by comparing the larger triangles connecting six nodes. These triangles are subdivided into four smaller, but similar (in the strict, geometry meaning of the word) triangles, which is not the case in Fig. 2. This formulation is important in obtaining a practical, efficient method for doing flow-based upscaling on unstructured grids.

If the examiner wishes to discuss this application with counsel, please contact the undersigned.

Respectfully submitted,

June 1, 2004
Date

J. Paul Plummer
J. Paul Plummer
Attorney for Applicants
Reg. No. 40,775

ExxonMobil Upstream Research Company
CORP-URC-SW348
P. O. Box 2189
Houston, Texas 77252-2189

Telephone: (713) 431-7360
Facsimile: (713) 431-4664

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I hereby certify that this correspondence is being transmitted via facsimile to Examiner W. P. Neuder, Technology Center 3600, United States Patent and Trademark Office at (703) 872-9306 on June 1, 2004.

Margaret Gnewuch
Margaret Gnewuch

88.046

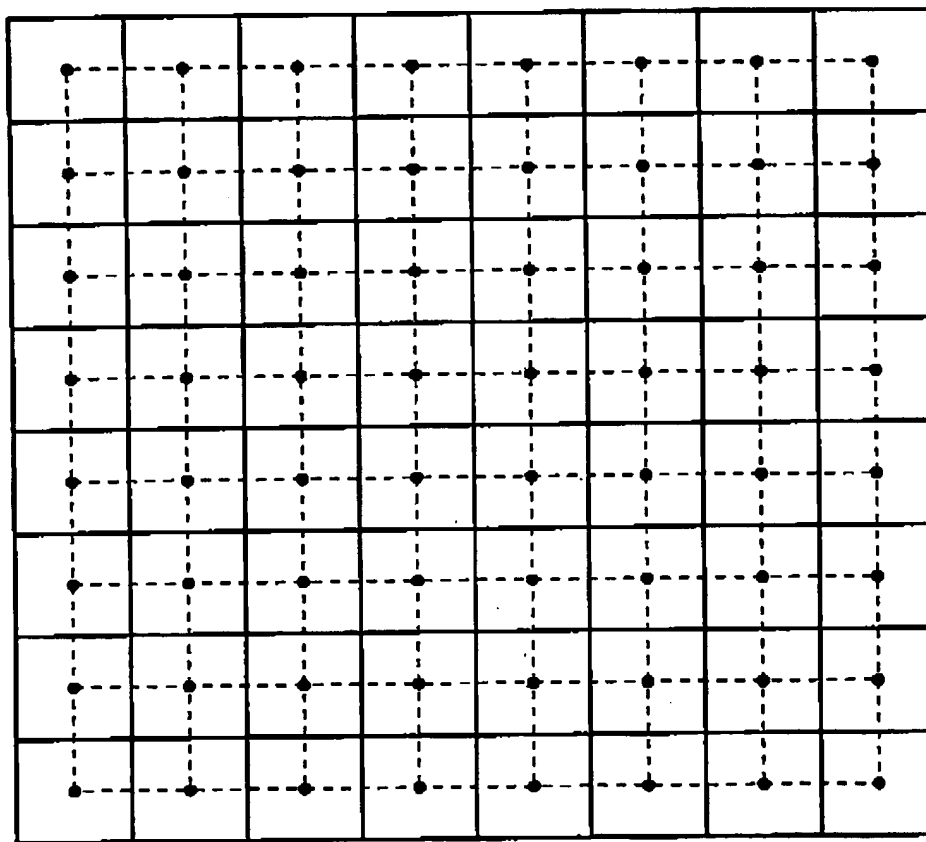
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FIG. 1
(Prior Art)

98.048

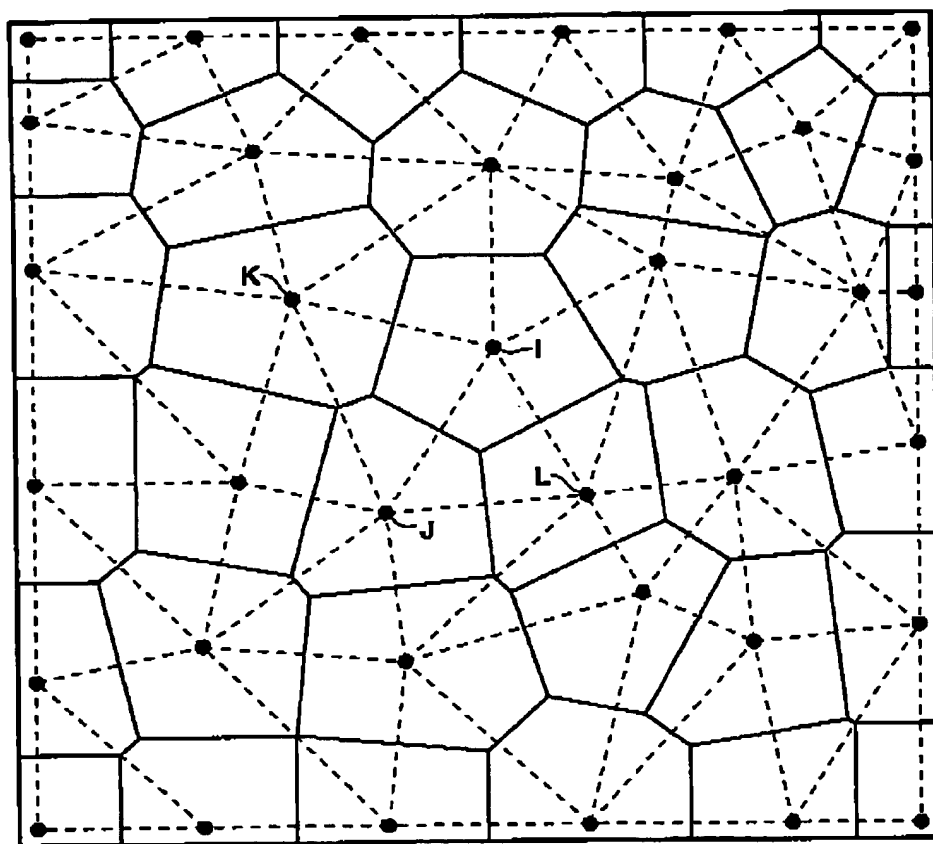
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FIG. 2
(Prior Art)